

ABSTRACT OF THE DISCLOSURE

A first group optical system having a positive refracting power, a second group optical system having a negative refracting power, and a third group optical system having a positive refracting power are sequentially arranged from an object side toward an image side. At least the first group optical system and the third group optical system move so that a distance between the first group optical system and the second group optical system becomes minimum at short focal-length side, and a distance between the second group optical system and the third group optical system becomes minimum at long focal-length side. The third group optical system includes a triplet lens formed with a negative lens, a positive lens, and a negative lens.